

Wm. Dxford & Sons, Ltd.,

Yard no. 670.

Profile & Decks.

(As built)

SUNDERLAND RPT. NO. 33085. 2020

'EMPIRE DAWN'

Lloyd's Register
Foundation

W1169 - 0096

Wm. Duxford & Son, Ltd.

Yard do. 670.

Midship Section.

(As built).

SUNDERLAND RPT. NO. 33085.

"EMPIRE DAWN"

W1169-0095

RETAIN

RETAIN



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Foundation

N^o 670

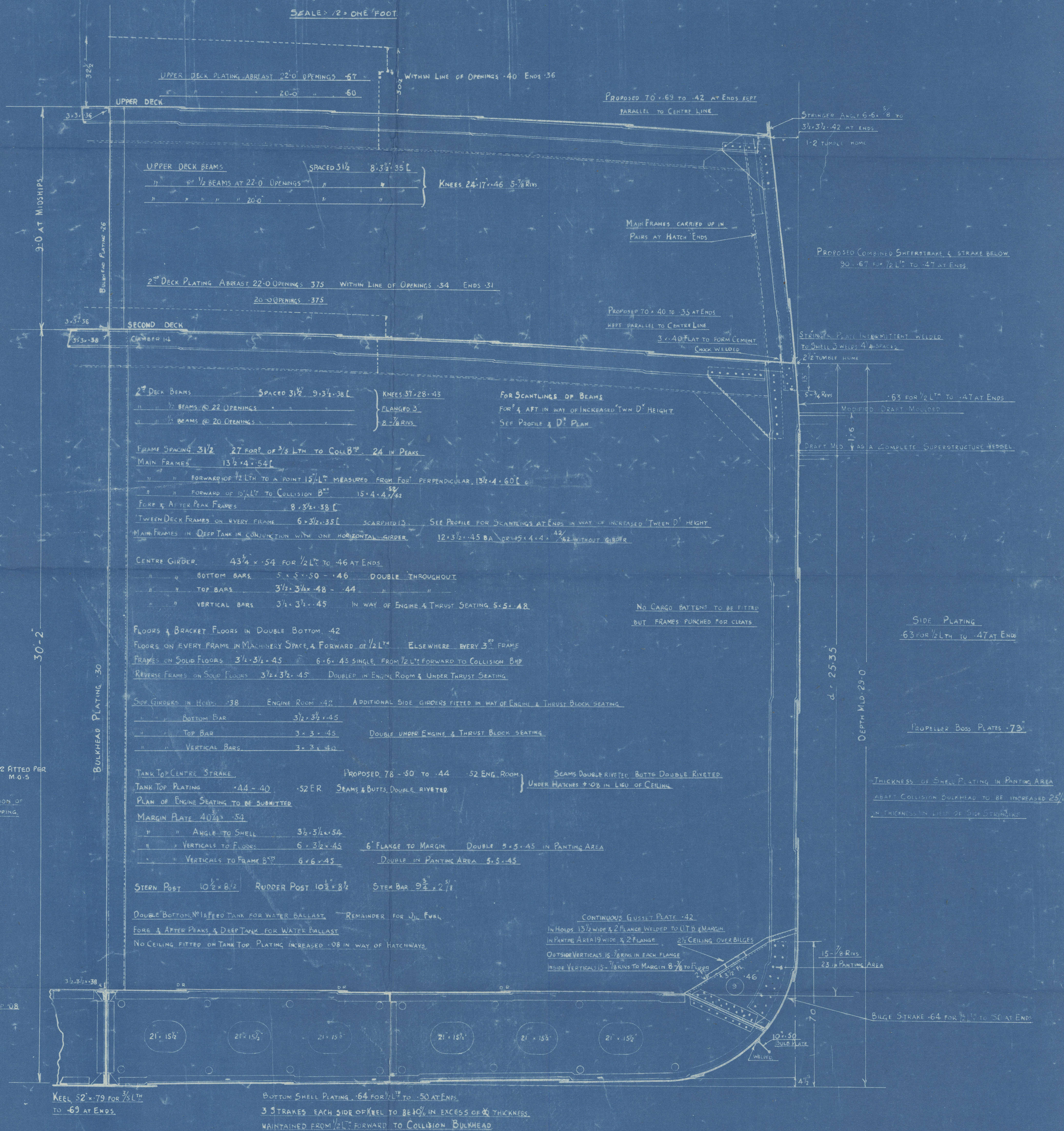
MIDSHIP SECTION AS FITTED

RULE LENGTH 420'-9 1/2" BREADTH M^o 56'-2 1/2" DEPTH M^o 29'-0"

CLASS:- LLOYDS 100A1 "WITH FREEBOARD" SCANTLINGS FOR
A DRAFT OF 18' IN EXCESS OF THAT CONTEMPLATED BY THE RULES
FOR A COMPLETE SUPERSTRUCTURE VESSEL

OWNERS EXTRAS

1. CONTINUOUS GUSSET PLATE TO BE FITTED AT MARGIN PLATE IN N^o 1 HOLD.
2. BROAD LINERS TO TAKE ONE ROW OF RIVETS EACH SIDE OF BULKHEAD FRAME TO BE FITTED IN WAY OF OUTSIDE SHELL STRAKES IN THE CASE OF THE FORE PEAK & AFTER PEAK BULKHEADS & IN THE CASE OF THE BULKHEAD BETWEEN N^o 1 & 2 HOLDS.
3. DECK PLATING UNDER STEERING ENGINE & WINDLASS TO BE NOT LESS THAN 50'.
4. DOUBLING PLATE EXTENDING TO BEAMS & FLOORS & AFTERS TO BE FITTED TO DECK IN WAY OF RUDDER CARRIER.
5. AT LEAST TWO OF THE WINCH GIRDER FOUNDATION BARS TO BE CONTINUOUS HATCH TO MATCH IN WAY OF MAST.
6. WINCH GIRDERS ELSEWHERE TO EXTEND SUFFICIENTLY FAR AFT TO DISTRIBUTE STRESS & VIBRATION.
7. FORE & AFT BOUNDARY BARS WINDLASS BED TO BE EXTENDED BEYOND THE BED TO TAKE THE RIVETS IN NEXT BEAM BEYOND THE BED.
8. CHAIN RIPS TO BE RIVETED, OR WELDED TO DECKS AT TOP & BOTTOM ENDS TO PROVIDE SUPPORT FOR WINDLASS ADDITIONAL TO NORMAL PILLERING.
9. EXPOSED FRONTS & ENDS OF BACKHOUSES TO HAVE BRACKETS ON STIFFENERS TO DECK.
10. RUDDER HEAD TO BE INCREASED 10 PER CENT IN DIAMETER & OTHER RUDDER SCANTLINGS CORRESPONDINGLY INCREASED.
11. TRANSOM POST TO BE INCREASED IN LENGTH 15% OVER RULE.



DEPTH FOR SCANTLINGS D	29'-0" + 8'-0" = 37'-0"
L x D	420'-79" x 37'-0" = 15569
L (B + D)	420'-79" (56'-21" + 37'-0") = 39221
1/6 (UPPER D)	420'-79" / 38'-0" = 11'-07"
DEPTH	25'-35"

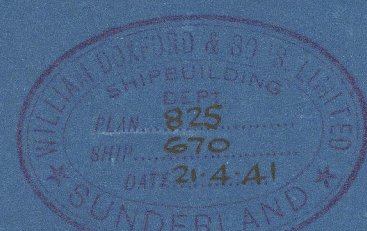
L (B + D)	420'-79" (56'-21" + 37'-0") = 39221
ENGINE CASINGS	57'-5" x 7'-5" x 50" = 216
OFFICERS HOUSE	30'-7" x 7'-5" x 50" = 115
CAPTAINS HOUSE	20'-0" x 7'-5" x 50" = 105
	40078

EQUIPMENT (LETTER A1)

38 POWER ANCHORS STOCKLESS COLLECTIVE WEIGHT	194 1/2 CWTs RULE. 2 FITTED PER M.O.S
1 STREAM ANCHOR EX STOCK	19
225 FATHOMS 2 3/8" CABLE	RULE LTH OF CABLE 270 FMS REDUCTION OF 45 FMS AS DESIRED BY MINISTRY OF SHIPPING.
90 5' 1/2 S.W.R. STREAM LINE	
120 4 1/4 6/24 " TOWLINE	
2090 2 3/8 6/2 HAWSEERS	
2090 2 1/2 6/2 WARPS	

NOTE: ALL CHANNELS & BULB ANGLES TO
NEW BRITISH STANDARD SECTIONS

TANK DIVISION FLOOR PLATES INCREASED 108' & VERTICAL STIFFS 5' x 3' x 44' 6" SPACED 30' APART



670
1925
10146

COCHRAN & CO., ANNAN, LD.

Boiler No. 14853

Drawing No. 25112

GLASGOW REPORT No. 63149

"Empire Dawn"

Sld 33085.

See 14852-4 & 14878



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W1169-0094

COCHRAN & CO, ANNAN.

COCHRAN & CO., ANNAN, LD.

AIR VESSEL No. K1150-1

Drawing No. 22445

RETAIN

42156

SUNDERLAND RPT. No. 33055

EMPIRE DAWN

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W1169 -0093



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GOCHRAN & CO ANNAN L^d.
ENGINEERS & BOILERMAKERS
ANNAN, SCOTLAND.

TANK N°	CONTRACT N°	DATE	SURVEY	TANK N°	CONTRACT N°	DATE	SURVEY	TANK N°	CONTRACT N°	DATE	SURVEY
K902	649	23-8-38	LLOYDS	K999	1037	26-5-37	LLOYDS				
K903	"	"	"	K1000	"	"	"				
K980	650	"	"	K1150	670	12-3-40	LLOYDS				
K981	"	"	"	K1151	"	"	"				
K982	651	"	"								
K983	"	"	"								

22.	1/8 DIA. RIVETS.	8.	M.S.
21.	COPPER & ASBEST. PACKING RING	1.	-
20.	PAD FOR VALVE BOX.	1.	M.S.
19.	3/8" PIPE WITH UNIONS.	1.	COPP
18.	3/8" PRESSURE GAUGE COCK.	1.	BR
17.	PADS FOR LIFTING AIR TANKS	1.	M.S.
16.	1" WHIT. BOLTS & NUTS	4.	M.S.
15.	3/4" STUDS.	8.	M.S.
14.	RIVETS 1" DIA.	20.	M.S.
13.	9/8" PLATE 9'-0" LONG	1.	M.S. PLATE TO BE BENT TO SHAPE.
12.	1" WHIT. BOLTS & NUTS	4.	M.S. TO BE FITTED BOLTS.
11.	LUGS WITH STRAP.	4.	M.S.
10.	1/8" STUDS & NUTS	4.	M.S.
9.	1/4" DIA. RIVETS	Q.S.	M.S.
8.	MANHOLE DOOR DOG	2.	M.S.
7.	" " STUDS & NUTS	2.	M.S. R.B 48/878
6.	" " McNEIL'S PAT.	1.	M.S.
5.	BOTTOM END.	1.	M.S.
4.	TOP END.	1.	M.S.
3.	INSIDE BUTT STRAP	1.	M.S.
2.	OUTSIDE " "	1.	M.S.
1.	SHELL PLATE	1.	M.S. 10-3 1/2" LONG X 11'-3 1/2" IRC
PART NO.	DESCRIPTION	NO OFF	REMARKS

21746 QUANTITIES GIVEN ARE REQUIRED FOR ONE TANK ONLY.
21741 21334. ~~138286~~
22445 ~~133244~~
DRAWING NO. ~~2857~~
1968 - 0073